

MRINALINI DATTA MAHAVIDYAPITH

Vidyapith Road, Birati, Kolkata-700 051

AFFILIATED TO WEST BENGAL STATE UNIVERSITY, BARASAT, NORTH 24 PGS

NAAC ACCREDITED CO-EDUCATIONAL COLLEGE (UG & PG)



Date 11/7/2023

Ref. No

CERTIFICATE

This is to certify that **Ms. Zaina Waris**, postgraduate student, fourth semester, Department of Biochemistry, West Bengal State University, has successfully carried out her M.Sc. Project entitled "**TARGETTING THE ESTROGEN RECEPTOR: STRUCTURE-BASED IN-SILICO APPROACH TOWARDS IDENTIFICATION OF SMALL-MOLECULE-BASED INHIBITOR**", at the Department of Chemistry, Mrinalini Datta Mahavidyapith, from 02.05.2023 to 05.07.2023, under the supervision of Dr. Prabuddha Bhattacharya, Assistant Professor, Department of Chemistry, Mrinalini Datta Mahavidyapith. This project has been submitted for the partial fulfilment of Master of Science in Biochemistry, West Bengal State University.

Prabuddha Bhattacharya
11/7/2023

Dr. Prabuddha Bhattacharya
Project Supervisor
Head, Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata - 51

Dr. Apurba Bandyopadhyay
11-07-23

Dr. Apurba Bandyopadhyay
Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Dr. Sutapa Mukherjee
Assistant Director Grade Scientist,
Head, Dept. of Environmental
Carcinogenesis and Toxicology
E-mail: sutapamukherjee@cnci.ac.in



CNCI
Chittaranjan National Cancer Institute
37, S. P. Mukherjee Road, Kolkata - 700 026, INDIA
Tel : 2476-5101/ 02 extn.317 Fax : 91-33-2475-7606

CERTIFICATE

This is to certify that Mr. Chirantan Patra, a student of M.Sc, Biochemistry, Department of Biochemistry, West Bengal State University, Barasat, North 24 Parganas, has carried out his original dissertation programme entitled: **“IRRADIATION MEDIATED HYPOXIA: AN INDUCER OF AURKA OVEREXPRESSION WITH SUBSEQUENT INGRESSION OF HIF-1 α -AURKA COMPLEX INTO MITOCHONDRIA”** under my guidance and supervision from 16.05.2023-15.07.2023.

Date: 15.07.2023

Place: Kolkata

Sutapa Mukherjee
Dr. Sutapa Mukherjee

Dr. Sutapa Mukherjee
Senior Scientific Officer (Assistant Director Grade)
Head, Department of Environmental
Carcinogenesis & Toxicology
Chittaranjan National Cancer Institute
37, S. P. Mukherjee Road
Kolkata-700 026



Department of Microbiology
College of Medicine & J.N.M Hospital
West Bengal University Of Health Sciences
Kalyani, Nadia, West Bengal, Pin:- 741235

Date: 30/06/2023

Memo No. COMJNM/MICRO/2023/156

TO WHOM IT MAY CONCERN

This is to certify that Suman Sadhukhan, post graduate student of the Department of Biochemistry (4th Sem), West Bengal State University, North 24 Prgs, West Bengal (Reg no: 1002111600098 of 2021, Roll. NO. 10021016500003), has completed his summer training in the project entitled “**A cross sectional study on Clinico-mycological profile of Superficial Fungal Infection.**” from 6th May, 2023 to 30th June, 2023 under my guidance in the Department of Microbiology. I wish his success in his future endeavours.

Briyanka Saha

30/6/23
Assistant Professor

Department of Microbiology

College of Medicine & J.N.M. Hospital, WBUHS

Kalyani, Nadia, 741235, West Bengal

Assistant Professor
Department of Microbiology
College of Medicine & J.N.M. Hospital
WBUHS, Kalyani, Nadia



UNIVERSITY OF CALCUTTA

COLLEGE OF SCIENCE

Dr. Alok Ghosh

Assistant Professor, Department of Biochemistry

University of Calcutta

35 Ballygunge Circular Road, Kolkata 700019

Date:

30/06/2023

TO WHOM IT MAY CONCERN

This is to certify that the project entitled "**Investigation on AMPK/AKT signaling pathway in the mice sarcoma tissue**", submitted by **Ms. MOUMITA ROY**, is absolutely based upon her own research work under my supervision. This project submitted to the Department of Biochemistry, West Bengal State University, Barasat, Kolkata, West Bengal is a compulsory project for her partial fulfillment of the Master of Science degree in Biochemistry.

Alok Ghosh

(Dr. Alok Ghosh)



DR. ALOK GHOSH
Assistant Professor
Department of Biochemistry
University of Calcutta

Email: alok.caluni@gmail.com

☎ 9674625356

☎: 033-24615445 Ext. 447

Fax: 91-33-24614849

Liver Enzymes and Electrolytes

Duration: May-June

By

Rupsa Dasgupta

Registration no: 1002121400151

Under the supervision of

Signature and seal of the supervisor

Examined by *Suparna Datta*
Assistant Professor
Department of Biochemistry
Signature of External Examiner *30.06.2023*
Kolkata

1. *Susmita Kundal 17/7/23*

2.

3.

Signature of Internal Examiners:

Electrolyte estimation in hypercholesterolemia patient

Project Duration: May-June

SHRABANI GHOSH
DEPARTMENT OF BIOCHEMISTRY
WEST BENGAL STATE UNIVERSITY
REGISTRATION NUMBER : 1011621300281

Under the supervision of

Sounika Biswas

Assistant Professor
Signature and seal of the supervisor
Department of Biochemistry
Medical College, Kolkata

30/6/23

Examined by

Signature of the external examiners

1. *Susmita Mondal 17/7/23*
2.
3.

Signature of the internal examiners



**CENTRAL RESEARCH INSTITUTE FOR JUTE AND
ALLIED FIBRES**

(Indian Council of Agricultural Research)

BARRACKPORE, KOLKATA-700121, WEST BENGAL

**TELE: (0) 033-25356124, FAX: 033-23350415, GRAM:
JUTERESEARCH**



Mrs. Kanti Meena
Scientist
Biotechnology
Division of Crop Improvement

Date: 30/06/2023

CERTIFICATE

This is to certify that **Mr. Sudipta Haldar**, a student of 4th semester, M.Sc. Biochemistry of West Bengal State University, have successfully completed his 2 month internship from 01.05.2023 to 30.06.2023 at Biotechnology laboratory of ICAR-CRIJAF. He worked on "**Parental polymorphism study in jute using jute specific EST-SSR markers**" under my supervision. His work is original and has not been submitted by him or anybody else for any other examination.

(Kanti Meena)



डा. कान्ति मीना / Dr. Kanti Meena
वरिष्ठ वैज्ञानिक / Senior Scientist
कृषि प्रसार अनुभाग / Agriculture (Bio-Technology)
भा.क. अनु. प- के. प. एवं स. र. अनु. संस्थान
ICAR-C.R.I.-J.A.F.
बैरकपुर, कोलकाता-700 121, प. बं.
Barrackpore, Kolkata-700 121, W.B.



MRINALINI DATTA MAHAVIDYAPITH

Vidyapith Road, Birati, Kolkata-700 051

AFFILIATED TO WEST BENGAL STATE UNIVERSITY, BARASAT, NORTH 24 PGS

NAAC ACCREDITED CO-EDUCATIONAL COLLEGE (UG & PG)

Ref. No.

Date 11/7/23

CERTIFICATE

This is to certify that **Ms. Samima Khatun**, postgraduate student, fourth semester, Department of Biochemistry, West Bengal State University, has successfully carried out her M.Sc. Project entitled "**COMPUTATIONAL STUDIES ON DNA-INTERCALATION BY NATURALLY OCCURRING HETEROCYCLIC COMPOUNDS WITH PLANAR STRUCTURES**", at the Department of Chemistry, Mrinalini Datta Mahavidyapith, from 02.05.2023 to 05.07.2023, under the supervision of Dr. Prabuddha Bhattacharya, Assistant Professor, Department of Chemistry, Mrinalini Datta Mahavidyapith. This project has been submitted for the partial fulfilment of Master of Science in Biochemistry, West Bengal State University.

Prabuddha Bhattacharya

Dr. Prabuddha Bhattacharya 11/7/23
Project Supervisor
Head, Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata - 51

11-07-23

Dr. Apurba Bandyopadhyay
Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051



MRINALINI DATTA MAHAVIDYAPITH

Vidyapith Road, Birati, Kolkata-700 051

AFFILIATED TO WEST BENGAL STATE UNIVERSITY, BARASAT, NORTH 24 PGS

NAAC ACCREDITED CO-EDUCATIONAL COLLEGE (UG & PG)

Ref. No.

Date 11/7/2023

CERTIFICATE

This is to certify that **Mr. Sumit Majhi**, postgraduate student, fourth semester, Department of Biochemistry, West Bengal State University, has successfully carried out his M.Sc. Project entitled "**PEPTIDE-BASED INHIBITOR OF SARS COV2 M^{PRO}: A COMPUTATIONAL APPROACH**", at the Department of Chemistry, Mrinalini Datta Mahavidyapith, from 02.05.2023 to 05.07.2023, under the supervision of Dr. Prabuddha Bhattacharya, Assistant Professor, Department of Chemistry, Mrinalini Datta Mahavidyapith. This project has been submitted for the partial fulfilment of Master of Science in Biochemistry, West Bengal State University.

Prabuddha Bhattacharya
11/7/2023

Dr. Prabuddha Bhattacharya
Project Supervisor
Head, Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata - 51

Dr. Apurba Bandyopadhyay
11-07-23

Dr. Apurba Bandyopadhyay
Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051



Department of Chemistry
Mrinalini Datta Mahavidyalaya
Kolkata-700051

Date:

Certificate of Approval

This is to certify that the project report entitled '**Computational studies towards identification of MDM2, small molecule inhibitors: an important step forward in cancer therapy**' submitted by **Siddhirtha Bala** to the Department of Chemistry, Mrinalini Datta Mahavidyalaya, Kolkata, for the partial fulfillment of Master of Science in Biochemistry, is a record of bonafide research work carried out by her under the guidance of Dr. Prabuddha Bhattacharya and it is worthy of consideration for the award of the degree of Master of Science in Chemistry of the Mrinalini Datta Mahavidyalaya.

Prabuddha Bhattacharya

Dr. Prabuddha Bhattacharya
(HOD of Chemistry Department)
Mrinalini Datta Mahavidyalaya
Birati, Kolkata 700051

11/11/23

Department of Chemistry
Mrinalini Datta Mahavidyalaya
Birati, Kolkata - 51

Extraction and characterization of Mucilage from jute (*Corchorus
Olitorius*) leaves

(Duration: May-June, 2023)

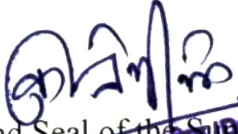

By

Arnab Basu

REGISTRATION NO.- 1181811404747
UNIVERSITY ROLL NO.- 10021016500017

UNDER THE SUPERVISION OF

Mrs. Kanti Meena
Scientist (Biotechnology)
ICAR-CRIJAF

Signature and Seal of the Supervisor


डॉ. कान्ति मीना / Doctor Scientist
श्री कृषि विद्यापीठ (Agriculture Bio-Technology)
प.प. १५५-१, व.प. १५५, तालुका बपटल
ICAR-C.R.I.J.A.F.
Bapatla, Andhra Pradesh 521 021, India.

Examined by-

(Signature of the External Examiner)

1. Susmita Mandal
17/7/23

2. _____

3. _____

(Signatures of the Internal Examiners)



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH

NICED
NATIONAL INSTITUTE OF
CHOLERA AND ENTERIC DISEASES

आई. सी. एम. आर. - राष्ट्रीय कॉलरा और आंत्र रोग संस्थान
ICMR - NATIONAL INSTITUTE OF CHOLERA AND ENTERIC DISEASES
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार कल्याण मंत्रालय, भारत सरकार
Department of Health Research, Ministry of Health and Family Welfare, Govt. of India

WHO COLLABORATING CENTRE FOR RESEARCH AND TRAINING ON DIARRHOEAL DISEASES

Date: 10.07.2023

EXPERIENCE CERTIFICATE

This is to certify that the thesis entitled "**Isolation and Characterization of *Shigella flexneri* Bacteriophage from Sewage Water for Future Therapeutic Purposes**" has been submitted by Mr. Diptendu Chakraborty, a student of final year M.Sc. in Biochemistry, 2021-2023 of West Bengal State University, West Bengal. During his stay in my laboratory as a project student, he worked extensively to familiar with research techniques in virology and molecular biology and applied them to complete his dissertation work. This project is the outcome of the work carried out by him from 01.05.2023 to 30.06.2023 in the laboratory **Division of Virology, ICMR National Institute Cholera and Enteric Diseases, Beliaghata, West Bengal.**

SIGNATURE OF SUPERVISOR

Alok Kumar Chakrabarti

DR. ALOK KUMAR CHAKRABARTI
Scientist E
Division of Virology

पी-३३, सी.आई.टी. रोड, स्किम - १०एम, बेलियाघाटा, कोलकाता - ७०००१०, भारत

P-33, C.I.T. Road, Scheme - XM, Beliaghata, Kolkata - 700010, India

निदेशक / Director : 91-33-2363 3373, 2370 1176, पि.बि.एक्स / PBX : 91-33-2353 7469 / 7470, 2370 5533 / 4478 / 0448

फैक्स / Fax : 91-33-2363 2398, 2370-5066, वेब / Website : www.niced.org.in



Government of West Bengal
OFFICE OF THE PRINCIPAL
Medical College, Kolkata
88, College Street, Kolkata-700073, India

Memo No.MC/SSI 4514/2023

Dated: 12/07/2023

TO WHOM IT MAY CONCERN

This is to certify that Ms.Debarati Chakraborty pursuing M.Sc in Biochemistry from West Bengal State University has successfully completed more than one month Summer Dissertation Project from 20.05.2023 to 30.06.2023 vide order No.MC/SS/2488/2023, Dated-20.05.2023 in Department of Biochemistry at Medical College, Kolkata-73. This institution is recognized by Medical Council of India.

His/ Her work, character and conduct during the stay in this institution were found to be satisfactory as per available records.


Principal
Medical College, Kolkata-73

Principal
Medical College, Kolkata





Government of West Bengal
OFFICE OF THE PRINCIPAL
Medical College, Kolkata
88, College Street, Kolkata-700073, India

Memo No.MC/SS/ 4613/2023

Dated: 14/07/2023

TO WHOM IT MAY CONCERN

This is to certify that Shreya Bera pursuing M.Sc in Biochemistry from West Bengal State University has successfully completed 2(Two) months Dissertation Project from 02.05.2023 to 30.06.2023 vide order No.MC/SS/2108/2023, Dated-28.04.2023 in Department of Biochemistry at Medical College, Kolkata-73. This institution is recognized by Medical Council of India.

His/ Her work, character and conduct during the stay in this institution were found to be satisfactory as per available records.



Abir Ghosh
12/7/2023

Principal
Medical College, Kolkata-73

Principal
Medical College, Kolkata



CENTRAL RESEARCH INSTITUTE FOR JUTE AND
ALLIED FIBRES

(Indian Council of Agricultural Research)

BARRACKPORE, KOLKATA-700121, WEST BENGAL

TELE: (0) 033-25356124, FAX: 033-23350415, GRAM: JUTE
RESEARCH



Date: 30/06/2023

Mrs. Kanti Meena
Scientist
Biotechnology
Division of Crop Improvement

CERTIFICATE

This is to certify that **Mr. Deep Ghosh**, a student of 4th semester, M.Sc. Biochemistry of West Bengal State University, have successfully completed his 2 month internship from 01.05.2023 to 30.06.2023 at Biotechnology laboratory of ICAR-CRIJAF. He worked on "Screening Jute specific SSR markers for parental polymorphism in two parents of jute" under my supervision. His work is original and has not been submitted by him or anybody else for any other examination.


(Kanti Meena)



डा. कान्ति मीना / Dr. Kanti Meena
ज्येष्ठ वैज्ञानिक / Senior Scientist
कृषि प्रसार अनुसंधान / Agriculture (Bio-Technology)
आ.क. अनु.प.-के.प. एवं स.र. अनु. संस्थान
ICAR-C.R.I.J.A.F.
बैरकपुर, कोलकाता-700 121, प.बं.
Barrackpore, Kolkata-700 121, W.B.



Government of West Bengal
OFFICE OF THE PRINCIPAL
Medical College, Kolkata
88, College Street, Kolkata-700073, India



Memo No.MC/ISSI 4518/2023

Dated: 12/07/2023

TO WHOM IT MAY CONCERN

This is to certify that Mr. Sumit Paul pursuing M.Sc in Biochemistry from West Bengal State University has successfully completed more than one month Summer Dissertation Project from 20.05.2023 to 30.06.2023 vide order No.MC/SS/2488/2023, Dated-20.05.2023 in Department of Biochemistry at Medical College, Kolkata-73. This institution is recognized by Medical Council of India.


His/ Her work, character and conduct during the stay in this institution were found to be satisfactory as per available records.

Sumit Paul
11/17/2023

Principal
Medical College, Kolkata-73

Principal
Medical College, Kolkata *BP*





ASSESSMENT OF UREA, CREATININE & ELECTROLYTES IN KNOWN RENAL FAILURE PATIENTS

BY

ARNAB KR. SARKAR

DEPARTMENT OF BIOCHEMISTRY, WBSU

REG NO. – 1301711400101

ROLL NO. – 10021016500020

Duration: MAY to JUNE

UNDER THE SUPERVISION OF

Soumitra Biswas

Assistant Professor

Department of Biochemistry
Medical College, Kolkata

30/6/23

Examined by :

Signature of the External Examiner

1. *Susmita Mandal* 17/7/23

2.

3.

Signature of the Internal Examiner



Government of West Bengal
OFFICE OF THE PRINCIPAL
Medical College, Kolkata
88, College Street, Kolkata-700073, India

Memo No. MC/SSI/4515/2023

Dated: 12/07/2023

TO WHOM IT MAY CONCERN

This is to certify that Arpita Roy pursuing M.Sc in Biochemistry from West Bengal State University has successfully completed 2(Two) months Dissertation Project from 02.05.2023 to 30.06.2023 vide order No.MC/SS/2133/2023, Dated-02.05.2023 in Department of Biochemistry at Medical College, Kolkata-73. This institution is recognized by Medical Council of India.

His/ Her work, character and conduct during the stay in this institution were found to be satisfactory as per available records.

Arpita Roy
11/7/2023

Principal
Medical College, Kolkata-73

Principal
Medical College, Kolkata



MRINALINI DATTA MAHAVIDYAPITH

Vidyapith Road, Birati, Kolkata-700 051

AFFILIATED TO WEST BENGAL STATE UNIVERSITY, BARASAT, NORTH 24 PGS

NAAC ACCREDITED CO-EDUCATIONAL COLLEGE (UG & PG)



Date 11/7/2023

Ref. No.

CERTIFICATE

This is to certify that **Mr. Dibyendu Naskar**, postgraduate student, fourth semester, Department of Biochemistry, West Bengal State University, has successfully carried out his M.Sc. Project entitled "**IDENTIFYING HITS AGAINST HCV SERINE PROTEASE: A COMPUTATIONAL APPROACH**", at the Department of Chemistry, Mrinalini Datta Mahavidyapith, from 02.05.2023 to 05.07.2023, under the supervision of Dr. Prabuddha Bhattacharya, Assistant Professor, Department of Chemistry, Mrinalini Datta Mahavidyapith. This project has been submitted for the partial fulfilment of Master of Science in Biochemistry, West Bengal State University.

Prabuddha Bhattacharya

Dr. Prabuddha Bhattacharya *11/7/2023*

Project Supervisor

Head, Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Department of Chemistry
Mrinalini Datta Mahavidyapith
Birati, Kolkata - 51

Dr. Apurba Bandyopadhyay
11-07-23

Dr. Apurba Bandyopadhyay
Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051

Principal
Mrinalini Datta Mahavidyapith
Birati, Kolkata-700051



Government of West Bengal
OFFICE OF THE PRINCIPAL
Medical College, Kolkata
88, College Street, Kolkata-700073, India



Memo No. MC/SSI/4517/2023

Dated: 12/07/2023

TO WHOM IT MAY CONCERN

This is to certify that Ms. Anamika Mondal pursuing M.Sc in Biochemistry from West Bengal State University has successfully completed more than one month Summer Dissertation Project from 20.05.2023 to 30.06.2023 vide order No. MC/SS/2488/2023, Dated-20.05.2023 in Department of Biochemistry at Medical College, Kolkata-73. This institution is recognized by Medical Council of India.

His/ Her work, character and conduct during the stay in this institution were found to be satisfactory as per available records.

[Handwritten Signature]
12/07/2023

Principal
Medical College, Kolkata-73

Principal *[Signature]*
Medical College, Kolkata





**CENTRAL RESEARCH INSTITUTE FOR JUTE AND
ALLIED FIBRES**

(Indian Council of Agricultural Research)

BARRACKPORE, KOLKATA-700121, WEST BENGAL

**TELE: (0) 033-25356124, FAX: 033-23350415, GRAM:
JUTEREASEARCH**



Mrs. Kanti Meena
Scientist
Biotechnology
Division of Crop Improvement

Date: 30/06/2023

CERTIFICATE

This is to certify that **Mr. Subhajit Roy**, a student of 4th semester, M.Sc. Biochemistry of West Bengal State University, have successfully completed his 2 month internship from 01.05.2023 to 30.06.2023 at Biotechnology laboratory of ICAR-CRIJAF. He worked on "**Physico-chemical and phytochemical analysis of mucilage extracted from jute (*Corchorous capsularis*) leaves**" under my supervision. His work is original and has not been submitted by him or anybody else for any other examination.

(Kanti Meena)



डा. कान्ति मीना / Dr. Kanti Meena
वरिष्ठ वैज्ञानिक / Senior Scientist
कृषि प्रसार अनुभाग / Agriculture (Bio-Technology)
भा.क. अनु. प. के. प. एच. संस्थान
ICAR-C.R.I.J.A.F.
बैरकपुर, कोलकाता-700 121, प.बं.
Barrackpore, Kolkata-700 121, W.B.



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

लक्ष्यं विश्वमानम्

Ref. No :

Date :

The following students have completed 8 credits project work under my supervision (Batch 2021-2023)

| Student's Name | Project Title |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sabuj Das | Spread Detection of Pulmonary Tuberculosis (PT), Inflammatory Masses, and Tuberculoma by using Pixel Analysis of Chest X-ray Images |
| Tathagata Poria | Analysis of Lung Cancer of Kaggle Database by using KNN classifier (Machine Learning) |
| Amitesh Khanra | Pixel Analysis of Chest X-ray Images of Pulmonary hematoma, Granuloma, Squamous Cell Carcinoma & Metastatic Colon Cancer: A Comparison of FFT and ImageJ Analysis |
| Suparna Guha | Pixel Analysis of Chest X-ray Images of Adenocarcinoma and Bronchioalveolar Carcinoma: A Comparison of FFT and ImageJ Analysis |
| Bidisha Das | Detection of Lung Cancer from Chest X-ray Images through FFT and ImageJ-based Analysis |

Dr. Durjoy Majumder
Assistant Professor
Department of Physiology



DURJOY MAJUMDER, Ph.D.

Assistant Professor

Department of Physiology

West Bengal State University

Kolkata - 700 126

Department of Economics
List of Students with their Semester IV
Project Details, 2022-23

| Sl.No. | Name | Session | Project Title |
|--------|----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Rishmita Roy | 2021-2023 | Health Issues, Expenditure and Financial Practices of Rural Communities after Covid - 19 Pandemic: A case Study at Harpara Village in the District of North 24 Parganas |
| 2 | Titi Dutta | 2021-2023 | Health Issues, Expenditure and Financial Practices of Rural Communities after Covid - 19 Pandemic: A case Study at Harpara Village in the District of North 24 Parganas |
| 3 | Semanti Roy | 2021-2023 | Health Issues, Expenditure and Financial Practices of Rural Communities after Covid - 19 Pandemic: A case Study at Harpara Village in the District of North 24 Parganas |
| 4 | Ritika Dey | 2021-2023 | Health Issues, Expenditure and Financial Practices of Rural Communities after Covid - 19 Pandemic: A case Study at Harpara Village in the District of North 24 Parganas |
| 5 | Supriti Mondal | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 6 | Abshar Khatoon | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |


 Head
 Department of Economics
 West Bengal State University
 Barasat, Kolkata-700126

| | | | |
|----|----------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | Chirantan Nag | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 8 | Tanisha Bose | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 9 | Mubashir Alam | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 10 | Anushree Das | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 11 | Sriparna Das | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 12 | Anindita Das | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 13 | Subham Gain | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 14 | Tanmoy Mondal | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |
| 15 | Soumyadeep Roy | 2021-2023 | Exploring Livelihood, Employment and Education Status of Minority Community in Post COVID-19 Period: A Household Level Study of Rural North 24 Parganas District |


 Head
 Department of Economics
 West Bengal State University
 Barasat, Kolkata-700126

| | | | |
|----|------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16 | Soumendu Nath | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 17 | Debarshi Halder | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 18 | Arunava Biswas | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 19 | Masuma Parveen | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 20 | Anwasha Mallick | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 21 | Srijita Saha | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 22 | Arghya Datta | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 23 | Sagar Das | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |
| 24 | Ishanui Majumdar | 2021-2023 | Health Issues, Expenditures and Financial Practices of Rural Communities after Covid-19 Pandemic: A Case Study of Harpara Village in the Districts of North 24 Parganas |


 Head
 Department of Economics
 West Bengal State University
 Barasat, Kolkata-700126

TCG Lifesciences Private Limited

Registered Office:

Block BN, Plot 7, Sector V

Salt Lake Electronics Complex

Kolkata - 700091, West Bengal, India

CIN - U73200WB1998PTC087651

Phone: +91 33 66007000, +91 33 40007000



TCG

Lifesciences

CHEMBIOTEK

Date: June 9, 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Joydev Patra** has successfully completed her training program from **April 10, 2023 to June 9, 2023** in Chemistry department at our organization. He has undergone a training on "**Synthesis of Substituted Amino-Pyrazole Derivative**"

We wish him all the best in his future endeavor.

Anirban Mitra
AVP & Head -HR & Administration

Accepted

Joydev Patra

09/06/2023

TCG Lifesciences Private Limited

Registered Office:

Block BN, Plot 7, Sector V

Salt Lake Electronics Complex

Kolkata - 700091, West Bengal, India

CIN - U73200WB1998PTC087651

Phone: +91 33 66007000, +91 33 40007000



TCG

Lifesciences

CHEMBIOTEK

Date: May 31, 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Kumaresh Das** has successfully completed his training program from **April 3, 2023 to May 31, 2023** in Chemistry department at our organization. He has undergone a training on "**Synthesis of Uracil nucleoside from alfa-D-Glucose**"

We wish him all the best in his future endeavor.

Anirban Mitra

AVP & Head -HR & Administration

Prof. Soumen Ghosh, M. Sc., Ph. D.
Professor of Chemistry & Co-ordinator,
Centre for Surface Science
Department of Chemistry, Jadavpur University
Kolkata – 700 032, West Bengal, India



Phone : +91-33-2457 2503

Fax : 91-33-2414 4266

Mob - 9432 075 363

E-Mail – gsoumen17@yahoo.co.in/
soumen.ghosh@jadavpuruniversity.in

Awards of Prof. B. N. Ghosh from ICS, Dr. B. C. Deb from ISCA. Bronze Medal from
CRSI, Visiting Chair Professor of St. F. X. University. Canada &

Selected as Top 2% World Ranking Scientist in Chemical Physics by Scientists of Stanford University, USA.

DECLARATION

This is to certify that the work embodied in the project work entitled "**Effect of anionic polyelectrolyte Sodium Carboxymethylcellulose on the aggregation behaviour of surface active Gemini ionic liquids in aqueous solution**" has been done by Moumita Mandal under my supervision as fulfillment of her M.Sc. degree of West Bengal State University with Inorganic Chemistry as a special paper, and that neither this report nor any part thereof has been submitted for any degree whatsoever.

Soumen Ghosh
26.05.23
Prof. Soumen Ghosh

Center for Surface Science

Department of Chemistry

Jadavpur University

Kolkata-700032, India

**Two manganese (II) Schiff base complexes derived
from tridentate Schiff base ligand – Synthesis and
characterization study**

Project report submitted by:

Mrinal Roy

(For the fulfillment of M.Sc. Semester-IV Examination, in Chemistry, 2023)

Under the supervision of

Dr. Chirantan Roy Choudhury



**Department of Chemistry
West Bengal State University
Berunanpukuria, Barasat,
Kolkata- 700126**



Indian association for the Cultivation of Science

2A & B Raja S.C. Mullick Road, Jadavpur, Kolkata 700 032, INDIA

Dr. Tarun K. Mandal
Sr. Professor
School of Chemical Sciences

July 14, 2023

To whom it may concern

This is to certify that Mr. Soumyadip Mondal worked in a short-term project entitled "Synthesis and Characterization of Water-soluble Poly(L-lysinylacrylamide)-based block copolymers" during the period from 01/04/2023 to 31/05/2023 in School of Chemical Sciences, Indian Association for the Cultivation of Science, Kolkata, under my supervision, as a part of the M. Sc. Curriculum, of West Bengal State University. He is very hard working. He did an excellent job in carrying out this project. To the best of our knowledge, the experimental matter embodied in the report has not been submitted to any other University/Institute for the award of any degree or diploma.

I wish him every success in his life.

T. Mandal

(Tarun Kumar Mandal)



Dr. Tarun K. Mandal

Senior Professor

School of Chemical Sciences

Indian Association for the Cultivation of Science

Jadavpur, Kolkata - 700 032



UNIVERSITY OF CALCUTTA

Centre for Research in Nanoscience and Nanotechnology

To Whom It May Concern

This is to certify that Ms. Srimonti Raha, a student of 4th Semester pursuing M.Sc. (Chemistry) in the Department of Chemistry, West Bengal State University has successfully completed the Masters project titled “Study of Inter-Dopant Electronic Interactions in Terbium and Samarium Co-doped Calcium Fluoride Nanoparticles” from April 01, 2023 to May 31, 2023. It is further certified that the candidate has performed the project work under my supervision.

P. Mukherjee 31/05/2023.

Assistant Professor
Centre for Research in
Nanoscience & Nanotechnology
University of Calcutta
Dr. Prasun Mukherjee
Assistant Professor
Centre for Research in Nanoscience and Nanotechnology
University of Calcutta
JD-2, Sector-III, Salt Lake, Kolkata, West Bengal, 700106, India



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that AGNIV BASU Registration No. 1251811400154 of Department of Geography, West Bengal State University completed his/ her dissertation paper titled ESTUARINE SEDIMENT TRANSPORT VIS A VIS TIDAL FLUCTUATION ALONG THE THAKURAN ESTUARY, INDIAN SUNDARBAN, WEST BENGAL as part fulfilment of M.A/ M.Sc Fourth Semester syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: 11.7.23

DR. SUBHAMITA CHAUDHURI
Professor
Department of Geography
West Bengal State University
Barasat, Kolkata - 700126

Examined
EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that..... Ambia Khatoon

Registration No. 1191822400281.....of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

Socio-Economic Condition of Santhal.....

Tribes of Ledapakur village of Ranibandh Block.....

of Bankura District..... as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Regional Planning and Rural Development Optional Paper, under my

guidance as per schedule.

M. Chandra : 11.07.2023 .

Date:.....



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that.....Ananda Sardar.....

Registration No. 1221611200194.....of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

BEEKEEPING IN SUNDARBAN : A CASE

OF MAIPIT VILLAGE IN KULTALI BLOCK.

..... as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Regional Planning and Rural Development Optional Paper, under my

guidance as per schedule.

Joy Kumar

Date: 12/7/23



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that.....ANINDITA.....NANDAN.....,

Registration No. ...1261821400004.....of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

...CHANGING... SCENARIO... OF... PHULTA... HANDLOOM.....

...INDUSTRY... AND... ROLE... OF... COOPERATIVE... ON...

...RURAL... DEVELOPMENT" as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Regional Planning and Rural Development Optional Paper, under my

guidance as per schedule.

Panchabati Majumdar

Date: 12/7/2011



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that...ANKITA SAHA, Registration No. 1171821400182 of Department of Geography, West Bengal State University completed his/ her dissertation paper titled ...SPATIAL VARIATION IN CRAB DWELLING STRUCTURE ALONG MANDARMANI BEACH AND THEIR GEOMORPHIC IMPLICATIONS as part fulfilment of M.A/ M.Sc Fourth Semester syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: 11/07/23



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

*This is to certify that **ARPAN ROY CHOWDHURY**, Registration No. 1181811404732 of Department of Geography, West Bengal State University completed his/ her dissertation paper titled **SEDIMENTATION AND NUTRIENT DYNAMICS ALONG A SELECTED TRANSECT OF KISHORIMOHANPUR AREA OF INDIAN SUNDARBAN** as part fulfilment of M. A / M. Sc Fourth Semester syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.*

Subhamita Chaudhuri

Date: .../11/7. 23

DR. SUBHAMITA CHAUDHURI
Professor
Department of Geography
West Bengal State University
Barasat, Kolkata - 700126

Examined
Pragnan B
14/5/23
EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:.....



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that Ausmita Mukherjee Registration No. 1371821400014
of Department of Geography, West Bengal State University completed his/ her
dissertation paper titled ... A COMPARATIVE STUDY OF SEDIMENT
TEXTURE IN THE BEACHES OF BAKKHALI AND HENRY ISLAND, WEST
BENGAL as part fulfilment of M.A/ M.Sc Fourth Semester syllabus in Applied
Geomorphology Optional Paper, under my guidance as per schedule.

Date: 11.07.2023

Examined by
Wingy
13/7/23
EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:



WEST BENGAL STATE UNIVERSITY

Berunanpukuna, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that.....*Arinandita Roy*.....,

Registration No.*1391821101481*.....of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

...*Spatial Variation of Sedimentary Environment*...

...*Along Mandarmani Beach*.....

..... as part fulfilment of M.A/ M.Sc Fourth Semester
syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: *11.7.23*

DR. SUBHAMITA CHAUDHURI
Professor
Department of Geography
West Bengal State University
Barasat, Kolkata - 700126



WEST BENGAL STATE UNIVERSITY

Berunanpukuna, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that.....Jyoti Kumari Gond.....,

Registration No. ...1071821201172...of Department of Geography, West Bengal

State University completed her dissertation paper titled "Clay Doll Making

Industry and its Impact on Empowering Women of Ghurni, Krishnanagar" as

part fulfilment of M.A/ M.Sc Fourth Semester syllabus in Regional Planning and

Rural Development Optional Paper, under my guidance as per schedule.

Dr. Ambika Roy Bardhan

Date: 12.07.2023



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that...*Karan Kumar Pabidas*.....

Registration No. ...*1361811100084*.....of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

...*Recent Trends of Boat Making Industry:*.....

...*A Case Study of Balagarh, Hooghly District*

...*of West Bengal*.... as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Regional Planning and Rural Development Optional Paper, under my

guidance as per schedule.

Joy Kumar Kar

Date: *12/7/23*



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that Manika Mondal.....

Registration No. 1391821101472..... of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

Mechanism of Bricks making in River side

Kilns and Their Geomorphic Significant, A Case

Study of Shrirampur, Diyana, Tipi, North 24 PGS, West Bengal
as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: 11-7-23

DR. SUBHAMITA CHAUDHURI
Professor
Department of Geography
West Bengal State University
Barasat, Kolkata - 700126

Examined
Manika Mondal
14/7/23
EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:.....



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that Nupurn Mistri.....,

Registration No. 1002121100104.....of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

Present Scenario of Clay Pottery: A Comprehensive Study of Clay Pottery Industry In Challa Beri

North 24 P.S., W.B...... as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Regional Planning and Rural Development Optional Paper, under my

guidance as per schedule.

Suchita Datta

Date: 14/07/23



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that....Pinki... Bhuiya.....
Registration No. 1002121100059....of Department of Geography, West
Bengal State University completed his/ her dissertation paper titled
SOCIO-ECONOMIC STATUS OF BAMBOO HANDICRAFT
INDUSTRY; A CASE STUDY IN DABAR VILLAGE
MALDA DISTRICT, W.B.... as part fulfilment of M.A/ M.Sc Fourth Semester
syllabus in Regional Planning and Rural Development Optional Paper, under my
guidance as per schedule.

Suchita Datta

Date: 14/07/23



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that... Piu Dhana

Registration No. 1002121400012 of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

JOINT FOREST MANAGEMENT: PUTTING PEOPLE

BACK TO POWER (A CASE STUDY OF ARABARI JFM

SYSTEM, PASCHIM MEDINIPUR^{WB} as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Regional Planning and Rural Development Optional Paper, under my

guidance as per schedule.

Panchali Hajumdar

Date: 12/7/23



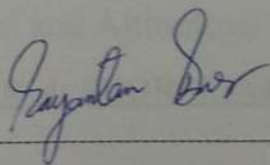
WEST BENGAL STATE UNIVERSITY

Berunanpukura, Malikapur Barasat

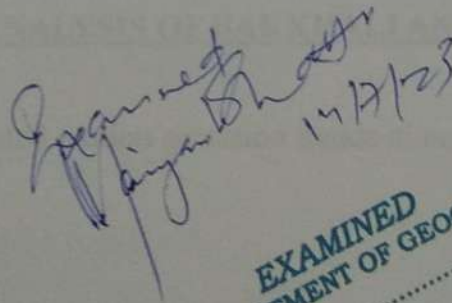
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that Pravati Pal, Registration No. 1411821300358 of Department of Geography, West Bengal State University completed his/ her dissertation paper titled Changes in the Coast line configuration of Bakkhali and Henry Island, West Bengal Since 2000 as part fulfilment of M.A/ M.Sc Fourth Semester syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.



Date: 11.07.2023


17/7/23

EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:



WEST BENGAL STATE UNIVERSITY

Berunanpukura, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that Riya Debnath, Registration No. 1251821300150 of Department of Geography, West Bengal State University completed her dissertation paper . titled Assesment of Coastal Vulnerability(CVI) along Mandarmani Coastal Tract, Pubra Medinipur, West Bengal as part fulfilment of M.Sc Fourth Semester syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: *11.7.23*



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that Shradha Dey.....
Registration No. 1281721400801-2017 of Department of Geography, West
Bengal State University completed his/ her dissertation paper titled
Child Labor And Perspective of the Industry.....
Owners About Child Labor - Habra - II, North
24 Parganas, West Bengal as part fulfilment of M.A/ M.Sc Fourth Semester
syllabus in Regional Planning and Rural Development Optional Paper, under my
guidance as per schedule.

Joy Kumar

Date: 12/7/23



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

*This is to certify that.....**Shreya Sarkar**.....,*
Registration No.1181821104727.....of Department of Geography, West
Bengal State University completed her dissertation paper titled
“Development of Tourism in Mousuni Island and its Impact on the Socio-Economic
Conditions of Baliara Village” as part fulfilment of M.A/ M.Sc Fourth
Semester syllabus in Regional Planning and Rural Development Optional Paper, under
my guidance as per schedule.

Dr. Ambika Roy Bardhan

Date: 12.07.2023



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that...SHUBHABRITA MUKHERJEE, Registration No. 1031811400136 of Department of Geography, West Bengal State University completed his/ her dissertation paper titled ...MORPHOLOGICAL VARIATION OF MANDARMANI BEACH WITH REFERENCE TO NEARSHORE WAVE CHARACTERISTICS as part fulfilment of M.A/ M.Sc Fourth Semester syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: 11/07/23



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikipur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that..... **Supratim Ghosh**

Registration No. 1071811401166 of Department of Geography, West

Bengal State University completed his/ her dissertation paper titled

Spatial Variation of Eco-Geomorphic Characteristics of Coastal Dunes:

A Case Study of Mandarmani Coastal Tract

..... as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.

Subhamita Chaudhuri

Date: 11.7.23

DR. SUBHAMITA CHAUDHURI
Professor
Department of Geography
West Bengal State University
Barasat, Kolkata - 700126

*Examined
Prayon Chatterjee
11/7/23*
EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:-.....



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that.....ANIK DAS.....

Registration No. 1002111600094.....of Department of Geography, West

Bengal State University completed his/ ~~her~~ dissertation paper titled

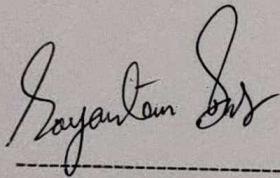
ALTERNATION IN THE ELUVIAL LANDSCAPE AT MALOPARA

(NADIA) - BANESWARDPUR (HUGLI) SEGMENT OF THE BHAGIRATHI-

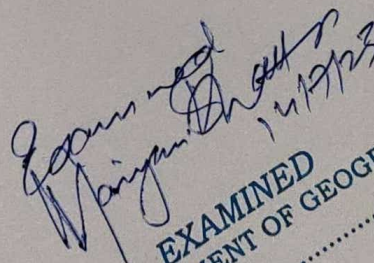
HOOGHLY RIVER BETWEEN 1989 AND 2023.

..... as part fulfilment of M.A/ M.Sc Fourth Semester

syllabus in Applied Geomorphology Optional Paper, under my guidance as per schedule.



Date: 11/07/2023



EXAMINED
DEPARTMENT OF GEOGRAPHY
DATE:.....



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone . (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

This is to certify that..... Dipankar Paul.
Registration No. 1002111400052.....of Department of Geography, West
Bengal State University completed his/ her dissertation paper titled
"The Socio - Economic Condition of
the weavers of Baluchari Saree Industry
in Bankura District" as part fulfilment of M.A/ M.Sc Fourth Semester
syllabus in Regional Planning and Rural Development Optional Paper, under my
guidance as per schedule.

Madhusree Palit Datta

Date: 11.07.2023



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat,
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax: (033) 2524 1977

लक्ष्यं विश्वमानम्


Ref.

Date

NOTICE

The following students of M.A 4th SEMESTER of 2022-2023 session have completed the Research project work as per the following Table.

| SL NO | NAME | REGISTRATION | DESSERTATION TOPIC |
|-------|--------------------|----------------|-------------------------------------------------------------------------------------------------------------------|
| 1 | FOUJI KHATOON | '1351822400521 | AB |
| 2 | BAIJNATH CHOUDHARY | '1341811100252 | भारतेन्दु हरिश्चंद्र के नाटकों में युग बोध |
| 3 | KAJAL CHOUDHARY | '1341821100250 | सरदार पूर्ण सिंह के निबंधों की सामाजिक चेतना |
| 4 | ANISHA SINHA ROY | '1002121400145 | प्लेटो का काव्य चिंतन |
| 5 | MITHLESH SHAW | '1341811400106 | धर्मवीर भारती द्वारा रचित 'अंधा-युग' नाटक की समसामयिकता |
| 6 | ANJALI SHAW | '1341821300615 | मोहन राकेश के नाटक 'आधे-अधूरे' में चित्रित आधुनिकता-बोध |
| 7 | RIYA SHARMA | '1341821100616 | जयशंकर प्रसाद के 'ध्रुवस्वामिनी' नाटक की समीक्षा 'आपका बंटी' उपन्यास में चित्रित विविध समस्याएं और बाल मनोविज्ञान |
| 8 | GANESH SHAW | '1361811300109 | प्रेमचंद की कहानियों में दलित चेतना |
| 9 | NAZNIN PARVEEN | '1361822400640 | कबीर के काव्य में समाज |
| 10 | SWETA VERMA | '1361821300322 | निराला के काव्य में जीवन दर्शन |
| 11 | VAISHALI GUPTA | '1361821300119 | नागार्जुन के काव्य में व्यंग्य |
| 12 | RUPALI CHOWDHARY | '1031821100135 | नाटककार भारतेन्दु एक मूल्यांकन |
| 13 | RIMI MAHATO | '1361821400328 | मन्नू भंडारी के रचना संसार में दाम्पत्य जीवन की समस्याएं |
| 14 | SHRADHYA PAUL | '1002121400078 | AB |
| 15 | SWETA SHAW | '1361821400335 | AB |
| 16 | PINKI BHAGAT | '1361821400327 | AB |
| 17 | TANNU BARMAN | '1361821400130 | प्रेमचंद के उपन्यासों में लगानबंदी की समस्या |
| 18 | POOJA SHAW | '1002121600137 | AB |
| 19 | SUJATA SHAW | '1351821300507 | भारतेन्दु के नाटक में युग बोध विशेष संदर्भ 'अंधेरनगरी' एवं 'भारत दुर्दशा' |


DR. VINOD KUMAR
Assistant Professor
Department of Hindi
West Bengal State University
Barasat, Kolkata - 700126

1


DR. ARUN HOTA
Professor & Head
Department of Hindi
West Bengal State University
Barasat, Kolkata-700126



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat,
24 Parganas (North), Kolkata - 700 126


Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax: (033) 2524 1977


लक्ष्यं विश्वमानम्

Ref.

Date

| SL NO | NAME | REGISTRATION | DESSERTATION TOPIC |
|-------|-------------------|----------------|------------------------------------------------------------------|
| 20 | PRITY YADAV | '1351821400515 | 'ध्रुवस्वामिनी' नाटक की रंगमंचीयता |
| 21 | RASMONI CHOUDHARY | '1351821100485 | जैनेन्द्र कुमार की स्त्री दृष्टि 'त्यागपत्र' के विशेष संदर्भ में |
| 22 | POONAM KUMARI RAM | '1351821100516 | धर्मवीर भारती के नाटक 'अंधा-युग' की प्रासंगिकता |
| 23 | PALAK ROY | '1031821400795 | मोहन राकेश के उपन्यास में स्त्री मूल्यांकन 'अंधेरे बंद कमरे' |
| 24 | VISHAL KUMAR SHAW | '1341811300231 | 'मुर्दहिया' डॉ. तुलसीराम दलित जीवन |
| 25 | KHUSHBU SINGH | '1361821400118 | नागार्जुन की कविताओं में सामाजिक एवं राजनीतिक चेतना |
| 26 | PARBATI CHOUDHARY | '1351821100488 | भारतेन्दु हरिश्चंद्र के नाटकों में सामाजिकता |
| 27 | RELA BISWAS | '1031821400114 | प्रेमचंद के उपन्यासों में किसान जीवन |
| 28 | JULI SHAW | '1341821300253 | कमलेश्वर की कहानियों में सामाजिकता |
| 29 | SWATI SHAW | '1341821400110 | सर्वेश्वरदयाल सक्सेना के बकरी नाटक का शिल्प |
| 30 | SUPRIYA BISWAS | '1031821400794 | घनानंद के काव्य में प्रेम और विरह |
| 31 | ANJALI KUMARI DAS | '1031821100115 | प्रेमचंद की कहानियों में किसान जीवन की समस्या |
| 32 | KAJAL RAY | '1351821400520 | मन्नू भंडारी के उपन्यास में बाल मनोविज्ञान |
| 33 | SOHINI MAJUMDER | '1002121400114 | मोहन राकेश के नाटक (आषाढ़ का एक दिन में युगीन समस्याएं) |
| 34 | RAKHI KARNA | '1002121400115 | मन्नू भंडारी के उपन्यासों में स्त्री |
| 35 | PUSPA RAJAK | '1031821100808 | प्रेमचंद कथा-सृष्टि और मूल्य-दृष्टि |
| 36 | SNEHA YADAV | '1231821400017 | 'धरती धन न अपना' उपन्यास में चित्रित समाज का यथार्थ |


DR. VINOD KUMAR
Assistant Professor
Department of Hindi
West Bengal State University
Berunanpukuria, Kolkata - 700126


DR. ARUN HOTA
Professor & Head
Department of Hindi
West Bengal State University
Barasat, Kolkata-700126



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat,
24 Parganas (North), Kolkata - 700 126


Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax: (033) 2524 1977

लक्ष्यं विश्वमानम्

Ref.

Date

| SL NO | NAME | REGISTRATION | DESSERTATION TOPIC |
|-------|-------------------|-----------------|-----------------------------------------------------|
| 37 | MANISHA YADAV | '1341821300241 | ज्ञानरंजन की कहानियों में मध्यवर्ग |
| 38 | JULI SHAW | '1351821400519 | मोहन राकेश के नाटक 'आषाढ़ का एक दिन' की ऐतिहासिकता |
| 39 | UMA SAHANI | '1341821100251 | 'कर्मभूमि' उपन्यास में चित्रित किसान जीवन |
| 40 | ANAMIKA RAY | '1031821400131 | निराला के काव्य की प्रासंगिकता |
| 41 | PUJA KUMARI YADAV | '1351821400518 | AB |
| 42 | HENA PARVIN | '1351822300486 | AB |
| 43 | FUL KUMARI MANDAL | '1031821100802 | AB |
| 44 | PRITI SHAW | '1351821400517 | नारी समस्या और 'ध्रुवस्वामिनी' नाटक |
| 45 | BHARTI DAS | '1351821100503 | प्लेटो का अनुकरण- सिद्धांत |
| 46 | KRITI TIWARI | '1351821400504 | घनानंद के काव्य में स्त्री दृष्टि |
| 47 | RINKI JAISWARA | '1351821400497 | डॉ. तुलसीराम की आत्मकथा 'मुर्दहिया' में दलित समस्या |
| 48 | LAXMI SHARMA | '13521821300530 | धूमिल की कविताओं में राजनीतिक चेतना |
| 49 | PRIYANKA GOND | '1351821400508 | डॉ. धर्मवीर भारती के 'अंधा युग' की समसामयिकता |
| 50 | SURAJ BARMA | '1002111600135 | 'मैला आँचल' उपन्यास की सामाजिक दृष्टि |


DR. VINOD KUMAR
Assistant Professor
Department of Hindi
West Bengal State University
Barasat, Kolkata - 700126


DR. ARUN HOTA
Professor & Head
Department of Hindi
West Bengal State University
Barasat, Kolkata-700126



THE EVIL SIDE OF SECTION 375 OF IPC: AN ANALYSIS

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

AFRIDI MONDAL

REGISTRATION NUMBER: 1011612301724

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**AN ANALYSIS OF WOMEN-CENTRIC BOLLYWOOD FILMS IN
INDIA**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

DEBLINA BHATTACHARJEE

REGISTRATION NUMBER: 1031721401502

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**RISE OF SUFI MUSIC IN INDIA THROUGH BOLLYWOOD
INDUSTRY: AN OVERVIEW**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY
JAYUJYOTI MULLICK
REGISTRATION NUMBER: 1002111400165

UNDER THE SUPERVISION OF
DR. GOPA PRAMANIK
COORDINATOR
DEPT. OF JOURNALISM & MASS COMMUNICATION
WEST BENGAL STATE UNIVERSITY

2023



**IMPACT OF SOCIAL MEDIA ON YOUTH: A COMPREHENSIVE
ANALYSIS**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

MEGHA DEY

REGISTRATION NUMBER: 1351821400334

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



IMPACT OF HUMAN TRAFFICKING BUSINESS IN INDIA

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

NISHA DAS

REGISTRATION NUMBER: 1351821100331

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**WOMEN EMPOWERMENT IN ADVERTISING: A STRATEGIC
BRANDING ANALYSIS**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

PEULEE BHATTACHARJEE

REGISTRATION NUMBER: 1351821400335

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**A STUDY OF CHANGING ATTITUDES TOWARD OTT PLATFORMS
AMONG VARIOUS AGE GROUPS IN KOLKATA AND SUBURBS**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

PULAK KUMAR SARKAR

REGISTRATION NUMBER: 100211400164

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**TIME MANAGEMENT AND PRODUCTIVITY VIA SOCIAL MEDIA
VS. TRADITIONAL LIFESTYLES: AN ENQUIRY**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

RAKHI SAHA

REGISTRATION NUMBER: 1171721400106

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**THE ROLE OF WOMEN IN POLITICS IN INDIA: FROM NOTHING
TO SOMETHING**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

RAVJOT SINGH

REGISTRATION NUMBER: 1421814400106

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**THE EFFECTIVENESS OF SOCIAL MEDIA AS A MARKETING
TOOL AMONG YOUNGSTERS**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

SHILPA GGOSH

REGISTRATION NUMBER: 1321821400093

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**A MULTIDIMENSIONAL EXPLORATION OF KOLKATA: PAST,
PRESENT AND FUTURE**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY
SUPARNA PATRA
REGISTRATION NUMBER: 1011821100510

UNDER THE SUPERVISION OF
DR. GOPA PRAMANIK
COORDINATOR
DEPT. OF JOURNALISM & MASS COMMUNICATION
WEST BENGAL STATE UNIVERSITY

2023



THE EXTINCTION OF RICE SPECIES: A COMPARATIVE STUDY

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY

TANUSHREE KAYAL

REGISTRATION NUMBER: 1411821100099

UNDER THE SUPERVISION OF

DR. GOPA PRAMANIK

COORDINATOR

DEPT. OF JOURNALISM & MASS COMMUNICATION

WEST BENGAL STATE UNIVERSITY

2023



**NEWSPAPERS VS. NEWS WEBSITES: A STUDY OF AGE-BASED
PREFERENCES**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY
TITAS CHAKRABORTY
REGISTRATION NUMBER: 1011821400516

UNDER THE SUPERVISION OF
DR. GOPA PRAMANIK
COORDINATOR
DEPT. OF JOURNALISM & MASS COMMUNICATION
WEST BENGAL STATE UNIVERSITY

2023



**AN ANALYSIS OF TOTAL LITERACY CAMPAIGN IN SOUTH 24
PGS. WEST BENGAL**

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT FOR
THE DEGREE OF MASTERS IN
JOURNALISM & MASS COMMUNICATION.

BY
TIYASA DUTTA
REGISTRATION NUMBER: 116181400044

UNDER THE SUPERVISION OF
DR. GOPA PRAMANIK
COORDINATOR
DEPT. OF JOURNALISM & MASS COMMUNICATION
WEST BENGAL STATE UNIVERSITY

2023



लक्ष्यं विश्वमानम्

DEPARTMENT OF HISTORY
WEST BENGAL STATE UNIVERSITY

This is for the notice of all concerned that the students of Semester IV (Session 2021-23) will undertake projects/ field studies for the preparation of research paper and seminar (Course HISPCOR16M) with the supervision of teachers of the Department as given below:

| Name of Student | Registration No. | Supervisor |
|--------------------|------------------|--------------------------|
| SAMRAT DAS | '1002111100054 | Sutapa Chatterjee Sarkar |
| BIDHAN MONDAL | '1002111100069 | Urvi Mukhopadhyay |
| NILADRI SEKHAR DAS | '1002111400053 | Kausik Bandyopadhyay |
| SHINJINI JANA | '1002121400051 | Sugata Nandi |
| ANINDITA GHOSH | '1002121400119 | Kausik Bandyopadhyay |
| TRISHITA GHOSH | '1002121400120 | Kausik Bandyopadhyay |
| ABIRI DAS | '1011821401145 | Urvi Mukhopadhyay |
| FERDOUS ALI | '1021812400420 | Sutapa Chatterjee Sarkar |
| AMINA KHATUN | '1021822300019 | Sugata Nandi |
| PURNIMA SARKAR | '1031821100149 | Somdatta Chakraborty |
| SWARNALI KARMAKAR | '1031821401966 | Urvi Mukhopadhyay |
| SHAMA MUJIB | '1031822400161 | Kausik Bandyopadhyay |
| SAYANI SARKAR | '1061821100067 | Sugata Nandi |
| SUPARNA PAUL | '1061821300007 | Sutapa Chatterjee Sarkar |
| SAYANI GHOSH | '1061821300011 | Sugata Nandi |
| PAPIYA DEBNATH | '1061821300017 | Kausik Bandyopadhyay |
| SAMPRITY GHOSH | '1061821300052 | Kausik Bandyopadhyay |
| APARNA SAMANTA | '1061821400064 | Urvi Mukhopadhyay |
| PRITI PAIK | '1091821102411 | Sutapa Chatterjee Sarkar |
| BIDISHA DUTTA | '1111821400030 | Kausik Bandyopadhyay |
| DALI BACHHAR | '1121821100200 | Somdatta Chakraborty |
| SABANA KHATUN | '1121822300199 | Sugata Nandi |
| SAHANAZ PARVIN | '1131822400053 | Kausik Bandyopadhyay |
| NANDITA BISWAS | '1141821400178 | Somdatta Chakraborty |
| RIA DAS | '1161821300233 | Sugata Nandi |
| TIYASHA BHUNIYA | '1211821100175 | Kausik Bandyopadhyay |
| SUPARNA DAS | '1211821300177 | Kausik Bandyopadhyay |
| SAMRAT MISTRY | '1221811100051 | Sutapa Chatterjee Sarkar |
| SUSMITA SAHA | '1241821400125 | Urvi Mukhopadhyay |
| SANJIB DAS | '1251811100786 | Kausik Bandyopadhyay |
| RAJDIP DATTA | '1251811400784 | Sugata Nandi |

| | | |
|---------------------|----------------|--------------------------|
| SUJOY ADHIKARY | '1251811400785 | Sutapa Chatterjee Sarkar |
| SAFIQUL GAZI | '1251812400789 | Kausik Bandyopadhyay |
| SWAPNA PAUL | '1251821400803 | Urvi Mukhopadhyay |
| SABANA YASMIN | '1251822400800 | Sugata Nandi |
| SUBRATA DAS | '1271811100104 | Kausik Bandyopadhyay |
| SWAPNA DAS | '1271821100105 | Urvi Mukhopadhyay |
| RAJESH BISWAS | '1381811100206 | Sugata Nandi |
| SOMNATH MONDAL | '1381811100208 | Sutapa Chatterjee Sarkar |
| BABITA ADHIKARY | '1381821100205 | Kausik Bandyopadhyay |
| SHARMILI SARKAR | '1391821100030 | Sugata Nandi |
| SUCHANA SHIL | '1391821300026 | Kausik Bandyopadhyay |
| KOUSHIK PAIK | '1411811101060 | Urvi Mukhopadhyay |
| MIRAJ ALI MOLLA | '1411812301063 | Sugata Nandi |
| SAHIN AKTAR KARIKAR | '1411812301082 | Sutapa Chatterjee Sarkar |
| HAZRAT ALI MOLLA | '1411812401054 | Sugata Nandi |
| PINKI SARDAR | '1411821201065 | Kausik Bandyopadhyay |
| RUMANA PARVIN | '1411822301079 | Kausik Bandyopadhyay |
| SARIKA KHATUN | '1421822300111 | Sutapa Chatterjee Sarkar |
| MAMPI ADHIKARY | '3021821400146 | Urvi Mukhopadhyay |
| PAYEL GHOSH | '3021821400150 | Urvi Mukhopadhyay |

Urvi Mukhopadhyay
7/3/2023

Head
Department of History
West Bengal State University
Barasat, Kolkata-700126



लक्ष्यं विश्रमानम्

DEPARTMENT OF HISTORY
WEST BENGAL STATE UNIVERSITY

This is to certify that the following students of Semester IV (Session 2021-23) undertook projects/ field studies for the preparation of research paper and seminar presentation (Course HISPCOR16M) with the supervision of teachers of the Department as allotted below:

| Name of Student | Registration No. | Supervisor |
|--------------------|------------------|--------------------------|
| SAMRAT DAS | '1002111100054 | Sutapa Chatterjee Sarkar |
| BIDHAN MONDAL | '1002111100069 | Urvi Mukhopadhyay |
| NILADRI SEKHAR DAS | '1002111400053 | Kausik Bandyopadhyay |
| SHINJINI JANA | '1002121400051 | Sugata Nandi |
| ANINDITA GHOSH | '1002121400119 | Kausik Bandyopadhyay |
| TRISHITA GHOSH | '1002121400120 | Kausik Bandyopadhyay |
| ABIRI DAS | '1011821401145 | Urvi Mukhopadhyay |
| FERDOUS ALI | '1021812400420 | Sutapa Chatterjee Sarkar |
| AMINA KHATUN | '1021822300019 | Sugata Nandi |
| PURNIMA SARKAR | '1031821100149 | Somdatta Chakraborty |
| SWARNALI KARMAKAR | '1031821401966 | Urvi Mukhopadhyay |
| SHAMA MUJIB | '1031822400161 | Kausik Bandyopadhyay |
| SAYANI SARKAR | '1061821100067 | Sugata Nandi |
| SUPARNA PAUL | '1061821300007 | Sutapa Chatterjee Sarkar |
| SAYANI GHOSH | '1061821300011 | Sugata Nandi |
| PAPIYA DEBNATH | '1061821300017 | Kausik Bandyopadhyay |
| SAMPRITY GHOSH | '1061821300052 | Kausik Bandyopadhyay |
| APARNA SAMANTA | '1061821400064 | Urvi Mukhopadhyay |
| PRITI PAIK | '1091821102411 | Sutapa Chatterjee Sarkar |
| BIDISHA DUTTA | '1111821400030 | Kausik Bandyopadhyay |
| DALI BACHHAR | '1121821100200 | Somdatta Chakraborty |
| SABANA KHATUN | '1121822300199 | Sugata Nandi |
| SAHANAZ PARVIN | '1131822400053 | Kausik Bandyopadhyay |
| NANDITA BISWAS | '1141821400178 | Somdatta Chakraborty |
| RIA DAS | '1161821300233 | Sugata Nandi |
| TIYASHA BHUNIYA | '1211821100175 | Kausik Bandyopadhyay |
| SUPARNA DAS | '1211821300177 | Kausik Bandyopadhyay |
| SAMRAT MISTRY | '1221811100051 | Sutapa Chatterjee Sarkar |
| SUSMITA SAHA | '1241821400125 | Urvi Mukhopadhyay |

| | | |
|---------------------|----------------|--------------------------|
| SANJIB DAS | '1251811100786 | Kausik Bandyopadhyay |
| RAJDIP DATTA | '1251811400784 | Sugata Nandi |
| SUJOY ADHIKARY | '1251811400785 | Sutapa Chatterjee Sarkar |
| SAFIQUL GAZI | '1251812400789 | Kausik Bandyopadhyay |
| SWAPNA PAUL | '1251821400803 | Urvi Mukhopadhyay |
| SABANA YASMIN | '1251822400800 | Sugata Nandi |
| SUBRATA DAS | '1271811100104 | Kausik Bandyopadhyay |
| SWAPNA DAS | '1271821100105 | Urvi Mukhopadhyay |
| RAJESH BISWAS | '1381811100206 | Sugata Nandi |
| SOMNATH MONDAL | '1381811100208 | Sutapa Chatterjee Sarkar |
| BABITA ADHIKARY | '1381821100205 | Kausik Bandyopadhyay |
| SHARMILI SARKAR | '1391821100030 | Sugata Nandi |
| SUCHANA SHIL | '1391821300026 | Kausik Bandyopadhyay |
| KOUSHIK PAIK | '1411811101060 | Urvi Mukhopadhyay |
| MIRAJ ALI MOLLA | '1411812301063 | Sugata Nandi |
| SAHIN AKTAR KARIKAR | '1411812301082 | Sutapa Chatterjee Sarkar |
| HAZRAT ALI MOLLA | '1411812401054 | Sugata Nandi |
| PINKI SARDAR | '1411821201065 | Kausik Bandyopadhyay |
| RUMANA PARVIN | '1411822301079 | Kausik Bandyopadhyay |
| SARIKA KHATUN | '1421822300111 | Sutapa Chatterjee Sarkar |
| MAMPI ADHIKARY | '3021821400146 | Urvi Mukhopadhyay |
| PAYEL GHOSH | '3021821400150 | Urvi Mukhopadhyay |

S. C. Sarkar
31.7.2023

S. C. Sarkar
Head
31.7.2023
Department of History
West Bengal State University
Barasat, Kolkata-700126





WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

लक्ष्य विरचमानम्

Ref.

Date :



WEST BENGAL STATE UNIVERSITY
DEPARTMENT OF MATHEMATICS
M. Sc.4th SEMESTER -2023(2021-23)

| Sl. No. | Name | Title of the Project |
|---------|-----------------|---------------------------------------------------------------------------------------------------------------------|
| 1 | Swapna Biswas | Some topological aspects in partial metric spaces and coincidence points in C*-algebra valued partial metric spaces |
| 2 | Supriyo Paul | Some topological aspects in partial metric spaces and coincidence points in C*-algebra valued partial metric spaces |
| 3 | Rikta Majumdar | Some topological aspects in partial metric spaces and coincidence points in C*-algebra valued partial metric spaces |
| 4 | Nipa Ghosh | Some topological aspects in partial metric spaces and coincidence points in C*-algebra valued partial metric spaces |
| 5 | Priyanka Mondal | Coincidence point results for hybrid pair of mappings on dislocated metric spaces |
| 6 | Priyanka Singha | Coincidence point results for hybrid pair of mappings on dislocated metric spaces |
| 7 | Atashi Ghosh | Coincidence point results for hybrid pair of mappings on dislocated metric spaces |
| 8 | Piku Das | Fixed points and coincidence points in an ordered space equipped with two b-metrics |
| 9 | Anik Dutta | Fixed points and coincidence points in an ordered space equipped with two b-metrics |
| 10 | Avirup Das | Fixed points and coincidence points in an ordered space equipped with two b-metrics |
| 11 | Mainak Das | Propagation of Ion-Acoustic Waves in Electron-Positron-Ion Plasmas with Superthermal Electrons |
| 12 | Rahul Biswas | Propagation of Ion-Acoustic Waves in Electron-Positron-Ion Plasmas with Superthermal Electrons |
| 13 | Titisha paul | Propagation of Ion-Acoustic Waves in Electron-Positron-Ion Plasmas with Superthermal Electrons |
| 14 | Rima Pramanick | Nonlinear Features of Ion-Acoustic Waves in Multi-Ion Plasmas with Two Temperature Superthermal Electrons |
| 15 | Sudarshan Roy | Nonlinear Features of Ion-Acoustic Waves in Multi-Ion Plasmas with Two Temperature Superthermal Electrons |
| 16 | Puspita Dey | Nonlinear Features of Ion-Acoustic Waves in Multi-Ion Plasmas with Two Temperature Superthermal Electrons |

D.S. 09/8/2023
Coordinator
Department of Mathematics
West Bengal State University
Barasat, W.B. - 700126.

WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977



Date :

| | | |
|----|-------------------|--------------------------------------------------------------------------------------------------------------------|
| 17 | Akram Baidya | Shape Invariant Potential for Effective Mass Models in Quantum Mechanics |
| 18 | Bikram Mondal | Bound State Solution of a Quantum Model using Hypergeometric Differential Equation |
| 19 | Ankana Mondal | Shape Invariant Potential for Effective Mass Models in Quantum Mechanics |
| 20 | Pritam Ghosh | Orthogonality and Orthonormality in n - Inner Product Space along with n -Banach Space and n -Banach Algebra |
| 21 | Sajal Kanti Roy | Orthogonality and Orthonormality in n - Inner Product Space along with n -Banach Space and n -Banach Algebra |
| 22 | Dinesh Biswas | Orthogonality and Orthonormality in n - Inner Product Space along with n -Banach Space and n -Banach Algebra |
| 23 | Manorama Ghosh | A Brief Study on n - Inner Product Space and on n -Banach Algebra |
| 24 | Farhana Yeasmin | A Brief Study on n - Inner Product Space and on n -Banach Algebra |
| 25 | Repa Mitra | A Brief Study on n - Inner Product Space and on n -Banach Algebra |
| 26 | Sakshi Singh | A Study on Some Aspects of n -normed Spaces |
| 27 | Gourhari Das | A Study on Some Aspects of n -normed Spaces |
| 28 | Rimpa Mali | A Study on Some Aspects of n -normed Spaces |
| 29 | Monishankar Hazra | Dynamics of Eco-epidemiological model with harvesting |
| 30 | Ayan Pandit | Dynamics of Eco-epidemiological model with harvesting |
| 31 | Samiran Sarkar | Study of a Size-structured Prey-predator Model |
| 32 | Aritra Saha | Study of a Size-structured Prey-predator Model |
| 33 | Ankita Ray | The persistence of prey-predator model with competition hosts. |
| 34 | Jayeeta Dhar | Bound State Solution of a Quantum Model using Hypergeometric Differential Equation |
| 35 | Koushik Maity | The persistence of prey-predator model with competition hosts. |
| 36 | Minakhi Biswas | An isospectral extension of the Morse potential. |
| 37 | Sahani Parvin | An isospectral extension of the Morse potential. |
| 38 | Chalanticka Dhara | Shape Invariant Potential for Effective Mass Models in Quantum Mechanics. |

D.S. 09/08/2023
Coordinator
Department of Mathematics
West Bengal State University
Kolkata, W.B. - 700126.

**A COMPARITIVE ON FINANCIAL CONDITIONS OF RICE
FARMERS AMONG NORTH 24 PARGANAS AND NADIA
DISTRICTS OF WEST BENGAL**



PG Dissertation Submitted in Partial Fulfillment

**For the Degree of
Master in Rural Studies**

By

PUJA DAS

Registration No – 1371821100024 of 2018

Under the Supervision of

Dr. BISWAJIT PAL

In the Department of Rural Studies

West Bengal State University

2023

EXAMINED

Signature
26/07/23

**IMPACT OF KITCHEN GARDENING ON FOOD SECURITY : A STUDY
ON SALINE WATER INDUCED NAMKHANA BLOCK OF SOUTH 24
PARGANA, WEST BENGAL**



**PG DISSERTATION SUBMITTED FOR THE PARTIAL FULFILLMENT OF
THE DEGREE MASTERS OF RURAL STUDIES**

BY

PUSPEN KUMAR KARMAKAR

REGISTRATION NO. : 10021018100013 OF 2017

UNDER THE SUPERVISION OF

DR. BISWAJIT PAL

DEPARTMENT OF RURAL STUDIES

WEST BENGAL STATE UNIVERSITY

EXAMINED

Dr. Biswa
26/07/23.

2023

**A COMPARATIVE STUDY ON ADOPTION
OF IMPROVED AGRICULTURAL
PRACTICES AMONG FARMERS IN SOUTH
& NORTH 24 PARGANAS DISTRICTS**



PG Dissertation Submitted in Partial Fulfillment

For the Degree of

Master of Rural Studies

By

KAPIL MISTRI

Registration No – 1051811100120 of 2018

JULY, 2023

Under the Supervision of

Dr. BISWAJIT PAL

In the Department of Rural studies

EXAMINED

West Bengal State University

2023

Signature
26/07/23

A study on the livelihood status of farmers during
COVID-19 pandemic in Deganga Block, North 24
Parganas in West Bengal



PG Dissertation Submitted in Partial Fulfilment

For the Degree of

Master of Rural Studies

By

Prodyut Mazumder

Registration No –of 2018,

Under the Supervision of

Dr. BISWAJIT PAL

EXAMINED

In the Department of Rural Studies

West Bengal State University, 2023

Prodyut Mazumder
26/07/23

**A Study on Impact of Backyard Poultry Farming
Practice on Women Empowerment in Daganga
Block of North 24 Parganas District, West Bengal**



PG Dissertation Submitted in Partial Fulfilment

For the Degree of

Master of Rural Studies

By

SUPARNA SAHA

Registration No – 1371821400023 of 2018,

Under the Supervision of

DR. BISWAJIT PAL

In the Department of Rural Studies

West Bengal State University

2023

EXAMINED

Dr. Biswa
26/07/23

**HANDICRAFT AND CULTURE: A CASE STUDY OF
SONAJHURI HAT, BIRBHUM, WEST BENGAL**



DISSERTATION SUBMITTED FOR THE PARTIAL FULFILMENT OF THE
DEGREE OF MASTER OF RURAL STUDIES

SUNMITTED BY

SHAHNOWAZ PARVEZ

Registration no: 1121812400246 of 2018

Under the guidance of

Dr. SIBNATH SARKAR

Guest lecturer

DEPARTMENT OF RURAL STUDIES

WEST BENGAL STATE UNIVERSITY

BERUNANPUKURIA, BARASAT, NORTH 24 PARGANAS

PINCODE-700126, WEST BENGAL

**Exploring the Santal Village's Cultural Nexus of Tangible and
Intangible Heritage: A Case Study of Patharkata Village,
Manbazar II, Purulia**



लक्ष्यं विश्वमानम्

A Dissertation Report submitted for the partial fulfilment of the award of the degree of

Masters of Rural Studies

Submitted By

SAYANTI DEY

Registration No: 1002121400040 of 2021

Under the guidance of

Dr. SUKLA BASU

Professor,

Department of Rural Studies

West Bengal State University

DEPARTMENT OF RURAL STUDIES

WEST BENGAL STATE UNIVERSITY

Berunanpukuria, North 24 Paraganas, West Bengal, – 700126

2023

**THE DEGRADATION AND LABOUR MARKET DYNAMICS OF BOAT
MAKING INDUSTRY: A CASE STUDY OF BALAGARH, HOOGLY, WEST
BENGAL**



लक्ष्यं विश्वमानम्

**DISSERTATION SUBMITTED FOR THE PARTIAL FULFILMENT OF THE DEGREE OF
MASTER IN**

RURAL STUDIES

SUNMITTED BY

NIPA SWAR

Registration no: 1171821400130 of 2018

Under the guidance of

Dr. SUKLA BASU

Professor

DEPARTMENT OF RURAL DEVELOPMENT

WEST BENGAL STATE UNIVERSITY

BERUNANPUKURIA, BARASAT, NORTH 24 PARGANAS

PINCODE-700126, WEST BENGAL

**Stitching a Path to Empowerment: The
Influence of Kantha Embroidery on
Women Empowerment of Surul
Muslimpara, Bolpur.**



PG Dissertation Submitted in Partial Fulfilment

For the Degree of
Master of Rural Studies

By

RITWIKHA GHOSH

Registration No- 3021821400054 of 2018

Under the Supervision of

Dr. SUKLA BASU

Head of the Department

Department of Rural Studies

West Bengal State University

2023

**A STUDY ON THE CULTURAL ASPECTS OF
RURAL TOURISTS:
A CASE STUDY OF RAJBARI OF SRIPUR VILLAGE**



A Dissertation Report submitted for the partial fulfillment for the award of the degree of

Masters of Rural Studies

Submitted By

POULAMI SANDEL

Registration No: 1031821400219 of 2018

Under the guidance of

Dr. SUKLA BASU

Professor,

DEPARTMENT OF RURAL STUDIES

WEST BENGAL STATE UNIVERSITY

Berunanpukuria, North 24 Paraganas, West Bengal, – 700126

2023

**A STUDY ON CHHAU: TANGIBLE AND INTANGIBLE
CULTURAL HERITAGE OF PURULIA**

A CASE STUDY OF CHARIDA, "MUKHOSH GRAM"



लक्ष्यं विश्वमानम्

A Dissertation Report submitted for the partial fulfilment for the award of the degree of:

Master of Rural Studies

Submitted by:

PRATYAY MONDAL

Registration number: 1181811304276 of 2018

Under the guidance of

Dr. SUKLA BASU

Professor

DEPARTMENT OF RURAL STUDIES

WEST BENGAL STATE UNIVERSITY

Berunanpukuria, North 24 Parganas, West Bengal: 700126

2023

**ANALYSIS OF FOOD CONSUMPTION PATTERN
DURING CYCLONE YAAS: A COMPARATIVE STUDY
OF NORTH AND SOUTH 24 PARGANAS**



PG DISSERTATION SUBMITTED IN PARTIAL
FULFILLMENT FOR
THE DEGREE OF MASTER OF RURAL STUDIES
BY

SUSMITA SHARMA

REGISTRATION NUMBER: 1051821400139 OF 2018

UNDER THE SUPERVISION OF
DR. CHINMOYEE MALLIK
ASSISTANT PROFESSOR
DEPARTMENT OF RURAL STUDIES
WEST BENGAL STATE UNIVERSITY

2023

EXAMINED

*Examined
Shruti Kumar
26/07/2023*



WEST BENGAL STATE UNIVERSITY

SOCIO-ECONOMIC STUDY OF FLOODPLAIN ENCROACHERS: A COMPARATIVE ANALYSIS OF SAGAR AND NAMKHANA CD BLOCK

Dissertation Submitted for the Partial Fulfilment of the Degree
Master of Rural Studies

Supervised By: Dr. Chinmoyee Mallik

Submitted By: Sayar Das

Registration No: 1002111600096

Roll No: 10021018100001

Department of Rural Studies
Berunanpukuria, Barasat, North 24 Parganas

Pin Code: 700126, West Bengal

(2023)

EXAMINED

Examined
Shovan Kumar
26/07/2023
26/07

Community Based Management of Cyclone Disasters: A Comparative Analysis of Namkhana and Sagar CD Block



DISSERTATION SUBMITTED FOR THE PARTIAL FULFILLMENT OF
THE DEGREE MASTERS IN RURAL STUDIES

SUPERVISED BY : DR. CHINMOYEE MALLIK
SUBMITTED BY : SAYANI AHAMED
REGISTRATION NO : 1371822300021

DEPARTMENT OF RURAL STUDIES

WEST BENGAL STATE UNIVERSITY

BERUNANPUKURIA, BARASAT, NORTH 24 PARGANAS,

PIN-700126, WEST BENGAL

EXAMINED

2023

Examined
Shovan Kumar
26/07/2023

**CROPPING PATTERN CHANGE & AGRICULTURAL MARKETING IN
RELATION TO COVID PANDEMIC**

**A Dissertation Report submitted for the partial fulfillment for the award of
the degree of
Masters of Rural Studies**

**Submitted By
PRITAM GHOSH**

Registration No: 1251611300067 of 2016

**Under the guidance of
Dr. Chinmoyee Mallik
Assistant Professor,**

**Department of Rural Studies
West Bengal State University**



**DEPARTMENT OF RURAL STUDIES
WEST BENGAL STATE UNIVERSITY**

Berunanpukuria, North 24 Paraganas, West Bengal,-700126

2023

EXAMINED
Examined
Shovan Kumar
26/07/2023

**Disaster Management Experience of People with Disability during
Cyclone Yaas: A Comparative Study of North and South 24 Parganas**



लक्ष्यं विश्वमानम्

**PG Dissertation Submitted in Partial Fulfillment For the Degree of
Master in Rural Studies**

By

BRISTI MAITY

Registration No - 1371821300200 of 2018

July, 2023

Under the Supervision of

Dr. Chinmoyee Mallik

Department of Rural Studies

West Bengal State University

2023

EXAMINED

*Examined
Shovan Kumar
20/07/2023*



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126


Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No :

Date :

The following students have completed 8 credits project work under my supervision (Batch 2021-2023)

| Student's Name | Project Title |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ritobrita Sen | Interaction of Five Vegetables with P-glycoprotein: An <i>In-silico</i> Study |
| Sweta Jaiswal | Interaction of P-glycoprotein with the Bioactive Components of <i>Daucus carota</i> , <i>Allium cepa</i> , <i>Brassica oleracea</i> , <i>Cyamopsis tetragonoloba</i> and <i>Luffa acutangula</i> by Molecular Docking |
| Koushik Bhattacharjee | Interaction of P-glycoprotein with Bioactive Compounds of Brinjal, Bitter gourd and Drumstick: An <i>In-silico</i> Study |
| Kanajit Debnath | Interaction of P-glycoprotein with Bioactive Compounds of Medicinal Plants |


Prof. PRATITI GHOSH
Head Department of Physiology
West Bengal State University

Prof. Pratiti Ghosh
PROFESSOR
Dept. of Physiology



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979, Fax : (033) 2524 1977

DEPARTMENT OF COMMERCE

This is to certify that the projects undertaken and completed by the students of M. Com (Batch: 2022-23) are the supervision of the following teachers of the Department in Substantive Post:

| Sr. No. | Name of the Student | Title of the Project | Supervisor |
|---------|----------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| 1 | DEBYANSHU SARKAR | 'Users' Perception on The Usage of Crypto-currency & Bitcoins' | Prof. Pranam Dhar |
| 2 | KASTURI SADHUKHAN | Consumers' perception towards OTT platforms: A Study on North 24 Parganas | Dr. Anirban Sarkar |
| 3 | SOUMILI DAS | An analysis of the growth and development of Indian Mutual Fund Industry with special reference to metro cities | Prof. Pranam Dhar |
| 4 | SOHINI DAS CHOWDHURY | Is gold safer than shares? | Prof. Kiranjit Sett |
| 5 | SWAGATA DUTTA | Socio Economic Impact of Nivedita Setu | Prof. Pranam Dhar |
| 6 | MD SANWAZ HOSSAIN | Performance Analysis of NSE Listed Pharmaceutical Companies | Prof. Kiranjit Sett |
| 7 | SUDIPA KUNDU | HOW DO PAST WINNERS AND LOSERS PERFORM IN THE FOLLOWING YEAR? | Prof. Kiranjit Sett |
| 8 | SHRESTHA PAL | CSR implementation in Indian banking sector: A perception study on selected banks in Kolkata | Prof. Pranam Dhar |
| 9 | RINKI SOME | Can a portfolio of Gold and Sensex beat Sensex? | Prof. Kiranjit Sett |

| | | | |
|----|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 10 | SOHAM PAUL | Related Party Disclosure in Select Indian Companies | Prof. Pranam Dhar |
| 11 | PURNIMA DEBNATH | Women Entrepreneurship in the human capital generation in West Bengal - Analysis with Reference to the district of North 24 Parganas | Prof. Pranam Dhar |
| 12 | SAYANI BHATTACHARYYA | Markovian Brand Switching Model on mobile brand | Dr. Anirban Sarkar |
| 13 | MOHAN SINGH | A study of the acquisition of the controlling stake in ACC Ltd and Ambuja Ltd by the Adani Group | Prof. Kiranjit Sett |
| 14 | PARTHA PAL | RESERVE BANK AND IT'S FUNCTIONS : A STUDY ON AWARENESS AMONGST IT'S CUSTOMERS | Prof. Pranam Dhar |

This is to certify that the details furnished above are true and correct to the best of my knowledge and belief.

With warm regards,

Most Sincerely Yours

Pranam Dhar,

Dr. Pranam Dhar
Professor & Head
Deptt. of Commerce
West Bengal State University
Barasat, Kolkata-700126

Date : 23.06.2023.

[Professor Pranam Dhar]
Professor & Head,
Department of
Commerce, WBSU.



सत्यं विद्यमानम्

WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

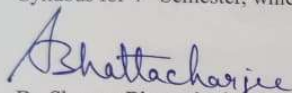
Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No:

Date:

CERTIFICATE

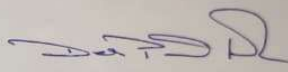
Certified that the dissertation entitled – “**Influence of Estrogen and Xenoestrogen on Proliferation of Non- small cell lung carcinoma**”, submitted by **Swati Kundu** (Registration No. – 1091821402148 of 2018) is a record work of project work that is include in MSc. Syllabus for 4th Semester, which has been carried out under our supervision.


Dr. Shamee Bhattacharjee

Place: WBSU

Date: 17/07/23

Shamee Bhattacharjee (MSc, PhD)
Associate Professor, Department of Zoology,
West Bengal State University,
Barasat, 24 Pgs (N), Kolkata-700126, India.


Dr. Deba Prasad Mandal

Place: WBSU

Date: 17/07/2023

Deba Prasad Mandal, Ph.D.
Associate Professor
Department of Zoology
West Bengal State University
Barasat, 24- Pgs. (N), Kol-126
West Bengal, India



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No :

Date :

CERTIFICATE

Certified that the dissertation entitled – “COMPARING THE AMELIORATION OF PESTICIDE-INDUCED TOXICITY IN ZEBRAFISH USING ENDOGENOUS & EXOGENOUS SOURCES OF MELATONIN”, submitted by **Debalina Mukherjee** (Registration No. **1011821400235 of 2018**) is a record of the project work that is included in the M.Sc. Syllabus for 4th Semester, which has been carried out under our supervision.


Dr. Shamee Bhattacharjee

Place: WBSU

Date: 17/07/23

Shamee Bhattacharjee (MSc, PhD)
Associate Professor, Department of Zoology,
West Bengal State University,
Barasat, 24 Pgs (N), Kolkata-700126, India.



Dr. Deba Prasad Mandal

Place: WBSU

Date: 17/07/2023

Deba Prasad Mandal, Ph.D.
Associate Professor
Department of Zoology
West Bengal State University
Barasat, 24- Pgs. (N), Kol-126
West Bengal, India



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat
24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No :

Date :

CERTIFICATE

Certified that the dissertation entitled – “Pro-metastatic role of TGF- β in Triple Negative Breast Cancer”, submitted by Aritra Mukhopadhyay (Registration No. – 1161811400163 of 2018) is a record of the project work that is included in MSc. Syllabus for 4th Semester, which has been carried out under our supervision.

Shamee Bhattacharjee

Dr. Shamee Bhattacharjee

Place: WBSU, Barasat

Date: 07/07/23

Shamee Bhattacharjee (MSc, PhD)
Associate Professor, Department of Zoology,
West Bengal State University,
Barasat, 24 Pgs (N), Kolkata-700126, India.

Deba Prasad Mandal

Dr. Deba Prasad Mandal

Place: WBSU, Barasat

Date: 07/07/2023

Deba Prasad Mandal M.Sc., PhD
Associate Professor/ Professor,
Department of Zoology,
West Bengal State University
Barasat, 24 Parganas (North)
Kolkata- 700126, West Bengal, India

CERTIFICATE FROM THE SUPERVISOR

This is to certify that the dissertation entitles "A comparative study of stress, anxiety and depression among different age groups" submitted by Ipsita Banerjee, Department of Zoology, is a record of research work carried out under my supervision in partial fulfillment of the requirement of the degree of Master in Science under West Bengal State University of the year 2021-2023. The whole work has been carried out by Ms. Ipsita Banerjee very sincerely and satisfactorily.

Samir Kumar Saha

Dr. Samir Kumar Saha
Professor
Department of Zoology
West Bengal State University

CERTIFICATE

This is to certify that the dissertation project work entitled **Study on the Influence of Web Building Activity on Stabilimentum Construction of Signature Spider (*Argiope anasuja*)** submitted by **ABHIJIT BISWAS**, Department of Zoology, is a record of research work carried out under my supervision in partial fulfilment of the requirement of the **MSc. degree in Zoology** under West Bengal State University of the year 2021-2023.

Samir Kumar Saha

Prof. Samir Kumar Saha,

Professor,

Dept. of Zoology,

West Bengal State University.

CERTIFICATE BY THE SUPERVISOR :-

It is hereby certified that the Project work entitled "IMPACT OF SOCIAL MEDIA ON SOCIAL BEHAVIOUR AND MENTAL HEALTH OF STUDENTS" submitted by PRITHA GUHA, student of Department of Zoology, West Bengal State University, is a record of Review Work carried out under my supervision and guidance. It is submitted in partial fulfilment of the requirements for the degree of Master of Science in Zoology under West Bengal State University for the session 2021-2023. This Review Work has been executed by Ms. Pritha Guha very sincerely and satisfactorily and has not been submitted elsewhere to the best of my knowledge.

Samir Kumar Saha

**Prof. (Dr.) Samir Kumar Saha,
Professor,
Department of Zoology,
West Bengal State University,
Barasat.**



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No :

Date :

CERTIFICATE

Certified that the dissertation entitled – “Activation of Nrf2 signaling is accompanied by upregulation of LncRNAs MIR22HG and RP11-213H15.3 in colorectal cancer cells”, submitted by Aatreyee Trivedi (Registration No. 1031821400234 of 2018) is a record of the project work that is included in the M.Sc. Syllabus for 4th Semester, which has been carried out under our supervision.

Shattacharjee

Dr. Shamee Bhattacharjee

Place: WBSU

Date: 17/07/23

Shamee Bhattacharjee (MSc, PhD)

Associate Professor, Department of Zoology,

West Bengal State University,

Barasat, 24 Pgs (N), Kolkata-700126, India.

Deba Prasad Mandal

Dr. Deba Prasad Mandal

Place: WBSU

Date: 17/07/2023

Deba Prasad Mandal, Ph.D.

Associate Professor

Department of Zoology

West Bengal State University

Barasat, 24- Pgs. (N), Kol-126

West Bengal, India

CERTIFICATE

This is to certify that the dissertation project work entitled **Laboratory Rearing of Signature Spider (*Argiope Anasuja*) and Observing an Initial Interaction With a Different Spider Species** submitted by **RIDDHI RANI PAUL**, Department of Zoology, is a record of research work carried out under my supervision in partial fulfilment of the requirement of the **MSc. degree in Zoology** under West Bengal State University of the year 2021-2023.

Samir Kumar Saha

Prof. Samir Kumar Saha,

Professor,

Dept. of Zoology,

West Bengal State University.

Research Projects: Academic Year: 2022-2023
Department of Education, West Bengal State University

| Name of Supervisor | Name of Student | Topic |
|----------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| Prof. A. K. Pal | Azharuddin Molla | Scholastic Achievement in relation to the Self-Efficacy of Post Graduate Students |
| | Lilima Bain | Attitudes of Parents and Students in Women Higher Education in West Bengal State University |
| Dr. Ajit Mondal | Anisha Parvin | Attitude of PG Students towards the Use of ICT in West Bengal |
| | Bishnupriya Bairagi | A Comparative Study between NPE 1986 And NEP 2020 With Special Reference to School Education |
| | Tandrani Dutta | Re-Examination of the Educational Philosophy of Rabindranath Tagore and Its Relevance in the 21st Century |
| | Munmun Rajak | An Evaluative Study on the Development of Women Education in India after Independence |
| | Poulami Mondal | Re-Appraising the Contribution of Nelson Mandela towards Peace and International Understanding |
| Dr. Shnaoli Chakraborty Acharya | Susmita Naskar | An Analytical Study on Peace Education and International Understanding in Higher Education Curriculum |
| | Anindita Banik | Self-Confidence and Mental Health of Undergraduate Students in 24 PGS(n): An Evaluation in the Post-Pandemic Scenario |
| | Dipa Mondal | An Analytical Study on the Development of Women E's Education in India: From 1997 to 2022 |
| | Neha Santra | Attitude of Post-Graduate Students of West Bengal State University towards |

Prof. Abhijit K. Pal
 Head
 Department of Education
 West Bengal State University
 Barasat, Kolkata-126

| | | |
|------------------------------|------------------|---------------------------------------------------------------------------------------------|
| | | Library Facilities in Relation to their Academic Performance |
| | Bikash Barui | Relevance of Swami Vivekananda's Vision of Indian Education System in the Recent Times |
| Dr. Provashis Mondal | Monika Ghosh | Gender Disparity in Higher Education among Post Graduate Students. |
| | Smriti Paul | Time Management Strategies for Post Graduate Level Students. |
| | Subrata Sarkar | Attitude of higher Education Students towards Post Covid Situations |
| Dr. Nelay Sarkar | Rajkumar Das | Internet Uses on Social and Educational Life of Higher Education Students: A Critical Study |
| | Salini Poddar | Role of Education To Empowerment of Women in India: Issues & Challenges |
| | Lipi Mondal | Thoughts and Ideas of APJ Abdul Kalam With Special Reference To Science and Moral Education |
| | Sangita Sarkar | Contribution of Raja Rammohan Roy as a Social and Educational Reformer in Indian Education |
| | Amrita Khanara | Swami Vivekananda's Concept of Mass Education and Its Relevance in Present Day of Context |
| | Priyanka Mondal | Education Opportunities and Challenges Of Backward Classes Students in Higher Education |
| Dr. MeskatKamal Molla | Deep Saha | Social and Educational reformer of Dr. B.R. Ambedkar |
| | Mou Mondal | Home Environment and Academic Achievement of Secondary School Students |
| | Imran abbas | Hossain Stress and Academic achievement of secondary level school students |
| | Priyan Oran | Self-concept and Academic Achievement of Post Graduate Students |
| | Aditi Pradhan | Study habits and Academic Achievement of Secondary students |
| | Deepti Chowdhury | Job Stress and Job satisfaction of secondary School teachers |


Prof. Abhijit K. Pal
 Head
 Department of Education
 West Bengal State University
 Barasat, Kolkata-126